

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	0	"10561732"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 13:14
S2	0	"10/561732"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 13:15
S3	1	10/580625	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/09 16:43
S4	0	("2007/0126055").URPN.	USPAT	OR	ON	2007/08/06 13:22
S5	710	257/288.ccls.	USPAT	OR	ON	2007/08/06 13:25
S6	21689	ldd or (light\$2 adj dop\$2)	USPAT	OR	ON	2007/08/06 13:26
S7	605	(insulat\$2 adj gate) with (trench or groove)	USPAT	OR	ON	2007/08/06 13:28
S8	1	S5 and S6 and S7	USPAT	OR	ON	2007/08/06 13:28

## EAST Search History

S9	107	( "20010015459"   "20020056884"   "20020175351"   "20030209757"   "4343015"   "4531173"   "4618541"   "4626789"   "4626879"   "4665426"   "4738936"   "4754310"   "4764800"   "4796070"   "4811075"   "4890144"   "4890146"   "4922327"   "4926074"   "4926243"   "4929987"   "4939566"   "4963951"   "4967246"   "5010024"   "5025296"   "5040045"   "5068700"   "5072266"   "5122848"   "5146298"   "5155574"   "5237193"   "5258636"   "5270264"   "5294824"   "5306656"   "5313082"   "5324683"   "5326711"   "5349225"   "5359221"   "5386136"   "5473180"   "5514608"   "5521105"   "5550405"   "5637898"   "5648283"   "5654206"   "5656543"   "5659201"   "5663599"   "5665994"   "5670828"   "5679608"   "5716887"   "5760440"   "5821144"   "5869875"   "5917216"   "5929481"   "5943595"   "5969408"   "5973360"   "5998833"   "6010926"   "6049108"   "6054752"   "6084277"   "6127703"   "6133607"   "6184555"   "6191447"   "6194283"   "6207994"   "6294818"   "6316807"   "6353252"   "6359308"   "6362064"   "6365932"   "6388286"   "6462377"   "6468847"   "6509220"   "6525372"   "6555873"   "6573558"   "6635544"   "6667213"   "6677641"   "6683346"   "6734714"   "6764889"   "6781194"   "6781198"   "6787847"   "6787848"   "6809354"   "6825536"   "6838346"   "6865093"   "6882005"   "6987299"   "7115958"   "7135748").PN. OR ("7221011"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 13:49
S10	1063	257/344.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 13:49
S11	8	S6 and S7 and S10	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 13:53

## EAST Search History

S12	755	257/335.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 13:54
S13	6	S6 and S7 and S12	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 13:55
S14	1183	257/408.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 13:55
S15	5	S6 and S7 and S14	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 13:56
S16	252	257/e27.091.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 13:56
S17	482	257/e21.655.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 13:56
S18	317	257/e29.012.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 13:56
S19	31	257/e33.048.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 13:58
S20	4	(S16 or S17 or S18) and (S6 and S7)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 13:58
S21	23	("4689871"   "4954854"   "5122848").PN. OR ("6316807").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 14:25
S22	49	("5359221").URPN.	USPAT	OR	ON	2007/08/06 14:37
S23	71	("4376947"   "5021353"   "5026657"   "5079611"   "5202576"   "5264384").PN. OR ("5349225").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 14:44
S24	60	("4630237"   "4651184"   "4673962"   "4683643"   "4686552"   "4689871"   "4704705"   "4713678"   "4794561").PN. OR ("4890144").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 14:50

## EAST Search History

S25	24	("3975221"   "4735918"   "4835585"   "4984043"   "4990974"   "5108938"   "5142640"   "5194923"   "5206182"   "5367186"   "5369295"   "5374836"   "5434435"   "5440160"   "5510630"   "5543654"   "5583361"   "5698884"   "5814869"   "5885876"   "5960270"   "6049107").PN. OR ("6555872").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 15:54
S26	2	("20010045599" "5142640").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 15:54
S27	1	("2001/0045599").URPN.	USPAT	OR	ON	2007/08/06 15:59
S28	0	"20020158257"	USPAT	OR	ON	2007/08/06 16:00
S29	0	"20020158287"	USPAT	OR	ON	2007/08/06 16:00
S30	2	"2002/0158287"	USPAT	OR	ON	2007/08/06 16:01
S31	3	10/103543	USPAT	OR	ON	2007/08/06 16:06
S32	1	"9943029"	USPAT	OR	ON	2007/08/06 16:07
S33	2	"99/43029"	USPAT	OR	ON	2007/08/06 16:09
S34	265	krautschneider	USPAT	OR	ON	2007/08/06 16:10
S35	10877	hofmann	USPAT	OR	ON	2007/08/06 16:10
S36	59	S34 and S35	USPAT	OR	ON	2007/08/06 16:10
S37	1	("2001/0045599").URPN.	USPAT	OR	ON	2007/08/07 06:54
S38	24	("3975221"   "4735918"   "4835585"   "4984043"   "4990974"   "5108938"   "5142640"   "5194923"   "5206182"   "5367186"   "5369295"   "5374836"   "5434435"   "5440160"   "5510630"   "5543654"   "5583361"   "5698884"   "5814869"   "5885876"   "5960270"   "6049107").PN. OR ("6555872").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 07:31
S39	5	("5828100"   "6316807").PN. OR ("6639274").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 08:06
S40	32	(lateral near2 trench) with MOS	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 08:06
S41	0	("2006/0202305").URPN.	USPAT	OR	ON	2007/08/07 08:26
S42	2104	(bidirectional or bi-directional) near switch\$3	USPAT	OR	ON	2007/08/07 08:27
S43	1865	trench with MOS	USPAT	OR	ON	2007/08/07 13:58
S44	3	S42 and S43	USPAT	OR	ON	2007/08/07 08:30

## EAST Search History

S45	11626	trench and MOS	USPAT	OR	ON	2007/08/07 08:30
S46	11	S42 and S45	USPAT	OR	ON	2007/08/07 08:30
S47	63	("3569729"   "3858235"   "4027324"   "4095127"   "4160258"   "4280069"   "4331969"   "4471372"   "4477742"   "4480201"   "4487458"   "4488068"   "4491750"   "4500802"   "4541001"   "4542396"   "4546367"   "4553151"   "4558243"   "4571512"   "4571513"   "4571606"   "4574207"   "4577208"   "4595847"   "4612465"   "4622568"   "4622569"   "4755697"   "4912541"   "4961100"   "4998074"   "5003246"   "5159425"   "5177374"   "5198957"   "5287024"   "5323044"   "5423004"   "5430315"   "5482878"   "5506157"   "5514608"   "5523601"   "5548133"   "5631483"   "5659190"   "5731603"   "5793064").PN. OR ("5977569").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 08:54
S48	1	"9943029"	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 08:55
S49	4	"1060518"	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 08:55
S50	2	"0735589"	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 08:55
S51	13	("4987089"   "5047820"   "5254866"   "5319231"   "5356828"   "5360753"   "5372957").PN. OR ("5598021").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 11:21
S52	726	438/259.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 11:26
S53	0	S42 and S52	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 11:26
S54	44	S43 and S52	USPAT	OR	ON	2007/08/07 14:05
S55	772	438/270.ccls.	USPAT	OR	ON	2007/08/07 14:05
S56	134	S43 and S55	USPAT	OR	ON	2007/08/07 14:05

## EAST Search History

S57	24	("4683643"   "4786953"   "5023196"   "5032888"   "5045903"   "5072266"   "5108937"   "5134448"   "5142640"   "5164325"   "5168331").PN. OR ("5349224").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 14:27
S58	108	438/561.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 14:36
S59	1336	438/700.ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 14:36
S60	26	S43 and S59	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 14:36
S61	88	257/218.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:26
S62	227	(insulate\$1 or isolate\$1) near (gate with trench)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:16
S63	0	S61 and S62	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:16
S64	227	(gate with trench) near (insulate\$1 or isolate\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:27
S65	754	257/240-244.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:27

## EAST Search History

S66	0	S64 and S65	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:34
S67	21841	gate with trench	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:34
S68	47	S65 and S67	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:47
S69	150	257/286.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:47
S70	6	S67 and S69	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:47
S71	88	257/218.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/08 06:29
S72	754	257/240-244.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/08 06:29



## EAST Search History

S73	831	S72 or S71	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/08 06:29
S74	1865	trench with MOS	USPAT	OR	ON	2007/08/08 06:29
S75	11	S73 and S74	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/08 06:29
S76	9	("20030062573"   "20040183136"   "20040207009"   "20050167748"   "20060024890"   "4569701"   "5502320"   "6297101"   "6661050").PN. OR ("7242058"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/08 06:56
S77	4345	switch\$3 near (bi-direction\$2 or (bidirection\$2) or (bi adj direction\$2))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/08 15:34
S78	111	lateral near trench near5 (MOSFET or (MOS near transistor))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/08 15:36
S79	1	S77 and S78	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/08 15:38
S80	2021	(reduce or lower or decrease) near (on-resistance or (on adj resistance))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/08 15:39



## EAST Search History

S81	13	S77 and S80	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/08 16:01
S82	32	S78 and S80	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/08 16:01
S83	78	raymond near hueting	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/09 18:47
S84	8	("20010045599" "5142640").PN.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/09 18:47
S85	45537	ldd or (light\$2 adj dope\$1)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/09 18:58
S86	608	(insulat\$2 adj gate) with (trench or groove)	USPAT	OR	ON	2007/08/09 18:58
S87	181	S86 and S85	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/09 18:58